

PATENT APPLICATION  
DOCKET NO. 64081-00005USPT**AMENDMENTS TO THE CLAIMS**

Please amend the Claims as follows:

1           1.       (currently amended) A peritoneal dialysis system for a patient, comprising:  
2                   a peritoneal dialyzer that utilizes dialysate to remove impurities from the blood of  
3       the patient;  
4                   a regenerated dialysate inlet tube leading into the peritoneal dialyzer and a spent  
5       dialysate outlet tube leading out of the peritoneal dialyzer, ~~said regenerated dialysate inlet tube~~  
6       ~~includes a side port for the infusion of a dialysate regenerating additive and~~  
7                   an additive pump section for pumping a dialysate regenerating additive into said  
8       dialysate; and  
9                   a sorbent section for regenerating the dialysate, wherein the sorbent section is  
10       adapted to be worn on the body of a patient.

1           2.       (withdrawn) The peritoneal dialysis system of claim 1, wherein the sorbent  
2       section comprises at least one sorbent device wherein said at least one sorbent device is  
3       connected in series.

1           3.       (withdrawn) The peritoneal dialysis system of claim 2, wherein each of the at  
2       least one sorbent device has a flexible casing adapted to conform to the body contour of the  
3       patient.

1           4.       (withdrawn) The peritoneal dialysis system of claim 2, wherein the number of  
2       sorbent devices may be varied to reflect different dialysis prescriptions.

1           5.       (canceled)

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1           6.       (canceled)

1           7.       (withdrawn) The peritoneal dialysis system of claim 6, wherein the additives are  
2 pumped into the dialysate from a plurality of additive reservoirs.

1           8.       (withdrawn) The peritoneal dialysis system of claim 1, wherein the rate of  
2 infusion of each said dialysate regenerating additive is controlled electronically.

1           9.       (withdrawn) The peritoneal dialysis system of claim 1, wherein the dialysate  
2 regenerating additive is chosen from the group consisting of: sodium citrate, calcium, potassium,  
3 and sodium bicarbonate.

1           10.      (withdrawn) The peritoneal dialysis system of claim 5, wherein the spent  
2 dialysate tube leads into the plurality of sorbent devices and the regenerated dialysate tube leads  
3 out of the plurality of sorbent devices.

1           11.      (withdrawn) The peritoneal dialysis system of claim 2, wherein the at least one  
2 sorbent-device comprises replaceable cartridges.

1           12.      (withdrawn) The peritoneal dialysis system of claim 11, wherein the replaceable  
2 cartridges include more than one of activated charcoal, urease, zirconium phosphate, hydrous  
3 zirconium oxide and activated carbon.

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1           13.   (withdrawn) The peritoneal dialysis system of claim 2, wherein the at least one  
2    sor bent-device are connected in parallel.

1           14.-25. (canceled)